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9 March 1963

MEMORANDUM FOR THE RECORD

SUBJECT: ONCART Test Flights

1. Aircraft #122 (J-58 engines) made flight #6, 8 March, for a duration of thirty-four minutes, with a Lockheed test pilot at the controls. A top speed of Mach 2.45 and altitude in excess of 62,000 feet were attained. The purpose of the flight was to extend the flight envelope and conduct high Mach stability checks. The bypass doors were intentionally held in a one and one-half inch open position by stops when the control was moved to closed. The spike control schedule will again be adjusted for the next flight. Lockheed hopes to reach Mach 2.8 by this procedure pending receipt of redesigned inlet control components due in about a week. The flight and landing were regarded as routine.

2. Aircraft #123 (J-75 engines) made flight #32, 8 March, for a duration of two hours and twenty-eight minutes with an Agency pilot at the controls. The purpose of the flight was to test the inertial navigation equipment and make automatic direction finder checks. The pilot reported that the inertial navigation system worked satisfactorily throughout the flight ^{with} errors reported of 1 n.m. at [redacted] The pilot was not satisfied with the auto-navigation mode of the system which he felt tended to overshoot too much. The pilot commented that the cockpit is extremely uncomfortable and improvements are mandatory before long flights are made. The landing was downwind with good drag chute deployment.

3. Aircraft #125 (J-58 engines) made flight #1, 8 March, for a duration of forty-eight minutes, with a Lockheed test pilot at the controls. The purpose of the flight: first production flight and checkout of the aircraft. The takeoff gross weight was 76,000 lbs. and CG at 18.2%. The aircraft was flown up to 40,000 feet and Mach 1.2 and equipment and system checks made. The pilot reported good acceleration. The flight and landing were routine. The aircraft passed the first flight test with only one malfunction of a hydraulic system noted.

4. Aircrafts #121 and #125, both with J-58 engines, tentatively are scheduled for flights on 9 March.

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(Special Activities)

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